Attorney File No.: V8998-6

ABSTRACT

The invention is directed to methods for adiabatically expanding the mode-field diameter of an optical fiber by heating the end of the optical fiber. The fiber's end is heated by a heat source, preferably, a flame fueled by an organic liquid. Preferably, the organic-liquid fuel is an alcohol, more preferably, an alcohol having six or fewer carbon atoms and only one hydroxyl group, and optimally methanol.